



# MMI 291 Seminar Series

Current Theme: Interdisciplinary Research

Spring Quarter 2021 – CRN 41611

**Friday Seminar – 12:10-1 p.m.**



*“What we can measure: unique relationships among gut bacterial taxa and patterns of dietary carbohydrate consumption”*

## Research / Bio

**Dr. Mary Kable** earned her Ph.D. in Biochemistry and Molecular Biology at UC Davis. She performed her postdoctoral work in the laboratory of Dr. Maria Marco where she examined the impacts of a diet rich in arabinoxylan and resistant starch type 2 on the gut microbial communities of Danish adults with metabolic syndrome. The Kable Lab continues to investigate how foods rich in complex carbohydrates and polyphenols can influence the structure of the adult gut microbial community and its metabolic products. In collaboration with investigators at the USDA-ARS, Western Human Nutrition Research Center, the lab has lately demonstrated a correlation between dietary carbohydrate diversity and gut microbiome diversity in a cross-sectional human phenotyping study.

## Publications

**Kable ME, et al. (2021)**

*Tree-based analysis of dietary diversity captures associations between fiber intake and gut microbiome composition in a healthy U.S. cohort. 2021, Journal of Nutrition. In review.*

**Hughes RL, et al. (2020)**

*Resistant Starch Type 2 from Wheat Reduces Postprandial Glycemic Response with Concurrent Alterations in Gut Microbiota Composition. 2020, Nutrients, 13(2).*

**Hughes RL, Et al. (2019)**

*The Role of the Gut Microbiome in Predicting Response to Diet and the Development of Precision Nutrition Models-Part I: Overview of Current Methods. Adv Nutr. 2019 Nov*

**Hughes RL, et al (2019)**

*The Role of the Gut Microbiome in Predicting Response to Diet and the Development of Precision Nutrition Models. Part II: Results. Adv Nutr. 2019 Nov*

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Assistant Adjunct Professor  
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UC Davis

**Oct 1, 2021  
12:10 – 1 p.m.  
ZOOM Meeting**

Medical Microbiology  
& Immunology  
School of Medicine

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We hope to see you there!